



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 41] नई दिल्ली, शनिवार, अक्टूबर 9, 1976 (आश्विन 17, 1898)  
No. 41] NEW DELHI, SATURDAY, OCTOBER 9, 1976 (ASVINA 17, 1898)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

## भाग III—खण्ड 2

### PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS & DESIGNS

Calcutta, the 9th October, 1976

#### CORRIGENDUM

In the Gazette of India, Part-III, Section 2, dated the 14th August, 1976 in page 690. Column 2, under the heading "Cessation of Patents"—

Delete No. 119337.

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

2nd September, 1976

1615/Cal/76. Council of Scientific and Industrial Research. Bellow's type, oil free vacuum pump for air sampling for air pollution studies.

1616/Cal/76. BBC Brown, Boveri & Company Limited. Method for fabrication of blades for axial-flow turbo machines.

1617/Cal/76. L. & C. Steinmuller GMBH. Process for combustion of rice husks accruing as waste.

3rd September, 1976

1618/Cal/76. General & Railway Supplies Pty. Ltd. Rail securing means and method. (April 6, 1976).

1619/Cal/76. Excoa, Inc. Two component field mix explosive.

1620/Cal/76. Vitek, Inc., and Marchem, Inc. Method of treating extensible hydrocarbon articles.

1—277GI/76

4th September, 1976

1621/Cal/76. Opti-Patent-, Forschungs-Und Fabrikations -AG. A sliding clasp fastener and a process and device for its production.

1622/Cal/76. Opti Patent-, Forschungs-Und Fabrikations-AG. A sliding clasp fastener and a process and device for its production.

1623/Cal/76. Opti Patent-, Forschungs-Und Fabrikations-AG. Slide fastener (Zipper).

1624/Cal/76. Opti Patent-, Forschungs-Und Fabrikations-A.G. Slide fastener (Zipper), method and equipment for manufacturing the rows of elements.

1625/Cal/76. Dr. J. P. Chawla and Dr. V. M. Ghatage. Wind energy converter.

1626/Cal/76. Arthur G. Clem. Water barrier panel and method.

1627/Cal/76. SCI Systems, Inc. A method for electrical discharge printing and a rotary electrical discharge printer therefor.

1628/Cal/76. Taiheiyo Kinzoku Kabushiki Kaisha. Continuous casting mold for metals.

6th September, 1976

1629/Cal/76. Snamprogetti S.p.A. Regassification installation for liquefied natural gases with concurrent production of electric power.

1630/Cal/76. Mrs. R. Jasuratham. A harmonium.

1631/Cal/76. Mining and Allied Machinery Corporation Ltd. Hydraulic props for roof support of mines.

- 1632/Cal/76. Arbrook, Inc. A method of treating medical and surgical instruments household objects, to render them sterile. [Divisional date December 10, 1975].
- 1633/Cal/76. Smith Kline & French Laboratories Limited. Pharmacologically active compounds. (October 2, 1975).
- 1634/Cal/76. Societe Nationale Des Poudres ET Explosifs. Improvements in or relating to a screw extruder having a screw casing connected to a bed.
- 1635/Cal/76. Grandes Minoteries A Feves DE France. Improvements relating to a process of manufacturing texturised protein of vegetable origin.

7th September, 1976

- 1636/Cal/76. Atlas Copco Aktiebolag. Method and device for breaking a hard compact material.
- 1637/Cal/76. M/s. Dunlop Auto Garrage. Lifting jack.
- 1638/Cal/76. P. Kumar and N. P. Saksena. Slag-free molten metal pouring ladle.
- 1639/Cal/76. BBC Brown, Boveri & Company Limited. Control system for a thermal power plant.
- 1640/Cal/76. Societa Alsacienne DE Constructions Mecaniques DE Mulhouse. A safety device for preventing the retention of thread in the weft-thread drawing needle of a weaving loom.
- 1641/Cal/76. Institut Francais DU Pétrole. A process for selectively plugging areas in the vicinity of oil or gas producing wells in order to reduce water penetration.
- 1642/Cal/76. Lucas Industries Limited. Fuel injection systems for internal combustion engines. (September 19, 1975).
- 1643/Cal/76. Hanford Boot Research Pty. Ltd. Dewatering slurries. (September 22, 1975).
- 1644/Cal/76. Lucas Industries Limited. Pump control devices. (September 27, 1975).
- 1645/Cal/76. Siemens Aktiengesellschaft. A D.C. to A.C. converter including an inverter.
- 1646/Cal/76. Siemens Aktiengesellschaft. Improvements in or relating to D.C. to A.C. converters.
- 1647/Cal/76. Mrs. Ratna Ramani. An exercise device.
- 1648/Cal/76. Galina Vasilievna Zhurkina (2) Galina Evseevna Moskalenko (3) Fedor Fedorovich Khimushin (4) Nikolai Fedorovich Lashko (5) Klavdia Pavlovna Sorokina (6) Tamara Mikhail-Lovna Grebtsova and Evgenia Markovna Kontsevaya. Nickel-based alloy.

8th September, 1976

- 1649/Cal/76. Schlumberger Overseas S.A. Method and apparatus for measuring the depth of a tool lowered into a borehole by means of a cable.
- 1650/Cal/76. Bunker Ramo Corporation. Miniature relay.
- 1651/Cal/76. Beecham Group Limited. A process for preparation of novel nitrocoumarin derivatives. (September 23, 1975).
- 1652/Cal/76. Mitsui Toatsu Chemicals, Incorporated. Process for separating and recovering unreacted materials in urea synthesis.
- 1653/Cal/76. Orissa Cement Limited. Method for the manufacture of silica refractory bricks.
- 1654/Cal/76. Orissa Cement Limited. Process for the manufacture of chemically bonded high alumina refractories.

- 1655/Cal/76. Dorr-Oliver Incorporated. Pier-supported refractory constriction element.
- 1656/Cal/76. Werner Luber. Method and apparatus for hardening of foundrycores.
- 1657/Cal/76. General Electric Company. Process for recovering synthetic diamonds from pressed runs.
- 1658/Cal/76. David Sciaky. Toroidal resistance welding transformer.
- 1659/Cal/76. K. C. Jain. A coated paper.

#### APPLICATION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

23rd August, 1976

- 291/Bom/76. M. H. Patel. Crushing and/or milling machines.
- 292/Bom/76. Mrs. Kamala Jetho Shivdasani and Mr. J. N. Shivdasani. Navjote pump.

24th August, 1976

- 293/Bom/76. Mrs. Vaijayanti Vasudeo Prabhunc. An improved cushion.
- 294/Bom/76. P. V. Sahasrabudhe. Mosquito hood.
- 295/Bom/76. Shrimati Zarin Jahangir Doomasia. Domestic pressure cooker.
- 296/Bom/76. Hoechst Pharmaceuticals Limited. Process for the isolation of pharmacologically effective substance from plants belonging to the labiate family.

27th August, 1976

- 297/Bom/76. V. L. Mushalkar. Mechanical-scare-crow.
- 298/Bom/76. M. C. Gandhi. A protection for heel and elbow.

#### APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

30th August, 1976.

- 163/Mas/76. Uniloids Limited. Process for the preparation of novel 1, 2, 5-substituted imidazole derivatives.
- 164/Mas/76. Indian Plywood Industries Research Institute. Improvements in or relating to composite boards from rich husk.
- 165/Mas/76. S. C. Hullatti. Brushless alternator.

31st August, 1976

- 166/Mas/76. T. V. Shanker. A bread slice toaster.

1st September, 1976

- 167/Mas/76. N. R. Srinivasan. Self adjusting stepless work holding device for use in engineering shop practice.
- 168/Mas/76. Indian Institute of Technology. A pyrometer for measuring surface temperature.

2nd September, 1976

- 169/Mas/76. P. D. Prakash. Rotary internal combustion engine.
- 170/Mas/76. Syed Mahmood Ali. An auto instant start choke.

## ALTERATION OF DATE

140281. }  
1966/Cal/75. } Ante-dated to 12th August, 1970.
140284. }  
1775/Cal/73. } Post-dated 5th November, 1975.
140291. }  
158/Bom/73. } Post-dated 27th December, 1973.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months give notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of such opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 36 of the Patents Rules, 1972.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (Postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 88F. I.C.-B01d 47/00. 140265.

## IMPROVEMENTS IN OR RELATING TO AIR-WASHER UNITS.

*Applicant:* DEVELOPMENT CONSULTANTS PRIVATE LIMITED, OF 24-B, PARK STREET, P.O. PARK STREET, CALCUTTA-16, STATE OF WEST BENGAL, INDIA.

*Inventors:* DWIJENDRA LAL NATH AND SUBHAS SINHA.

Application No. 2068/Cal/74 filed September 18, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

An improved air-washer unit for separating fine granular material such as fly ash, in a mixture of air and the said fine granular material, so that entrapped air thus separated is released in the atmosphere in a dust-free form, so as to prevent pollution of air, the said improved air-washer unit having, in combination, mainly the following parts, namely—

- (i) a body of the unit which is cylindrical in cross-section;
- (ii) an inlet for ash and air (that is, ash or dust-laden air) to enter the body tangentially;
- (iii) a plurality of spraying nozzles, provided along the path of the said ash-laden air, for removing any residual ash present in the air;
- (iv) an outlet for clear air, provided on top of the body, the said air outlet extending downward into the said body;
- (v) an outlet for the resulting slurry, (that is, ash and water) provided at the bottom of the air washer body unit, for being discharged into a sump for the subsequent stage in the act of conveying and disposal of the material;

(vi) an impingement plate located below the downwardly extended outlet for clear air, for the ash-laden air to impinge on the said plate, for separating the conveying air from the said ash which in slurry form flows at the bottom of the body of the unit; and

(vii) at least one manhole is provided on one side of the cylindrical body, for entry inside and attending as and when required.

CLASS 130D. I.C.-C21b 13/14, C22b, 15/06, 23/02, 25/02. 140266.

## METHOD FOR GASEOUS REDUCTION OF METAL ORES.

*Applicant:* FIERRO ESPONJA, S.A., OF AVENIDA LOS ANGELES al ORIENTE, MONTERREY, N.L., REPUBLIC OF MEXICO.

*Inventors:* JUAN CELADA AND PATRICK WILLIAM MACKAY.

Application No. 2396/Cal/74 filed November 1, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A method for the batchwise gaseous reduction of metal oxides to metals in a multiple unit reactor system of the type in which separate bodies of metal-bearing material are simultaneously treated in one or more charging reactors, reduction reactors, and cooling reactors and a reducing gas is passed successively through said cooling and reduction reactors, which comprises passing a cool reducing gas composed largely of carbon monoxide and hydrogen through a body of largely reduced metal oxide in a cooling reactor, cooling the effluent gas from said cooling reactor, recirculating a portion of the cooled effluent gas through the body of reduced metal oxide in said cooling reactor, heating the remainder of said cooled effluent gas to a temperature of 900° to 1100°C, passing said heated gas through a body of metal oxide in a reduction reactor, recirculating to said reduction reactor a portion of the effluent gas from said reduction reactor mixed with said remainder of said effluent gas from said cooling reactor and removing the remainder of the effluent gas from said reduction reactor from said system.

CLASS 31A. I.C.-H01g 3/195. 140267.

## CAPACITOR AND DIELECTRIC EMPREGNANT COMPOSITION THEREFOR.

*Applicant:* MONSANTO COMPANY, OF 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

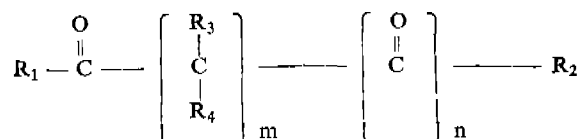
*Inventor:* RALPH HOWARD MUNCH.

Application No. 2417/Cal/74 filed November 4, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

An electrical capacitor comprising at least two electrodes and a dielectric sheet positioned therebetween, said dielectric sheet and interstices between said dielectric sheet and said electrodes being impregnated with a dielectric liquid composition comprising at least one ketone having an atmospheric boiling point greater than about 150°C and represented by the structure



wherein  $R_1$  and  $R_2$  have a combined carbon atoms content of less than 20 and are individually alkyl, alkenyl, phenyl, tolyl, naphthyl, substituted phenyl, substituted tolyl or substituted naphthyl wherein the substituted aromatic radicals individually contain no more than 18 carbon atoms;  $R_3$  and  $R_4$  can fur-

ther be part of the same moiety which comprises a cyclic ketone wherein  $R_1$  and  $R_2$  together provide 4 or more continuous carbon atoms to form a chain;  $R_3$  and  $R_4$  are individually hydrogen or  $C_1$  to  $C_8$  alkyl;  $n$  is zero or 1; and  $m$  is a whole number from zero to 6 provided that if  $n$  and  $m$  are both 1 then neither  $R_3$  or  $R_4$  can be hydrogen.

CLASS 206C, I.C.-H01P 5/00. 140268.

#### HIGH-FREQUENCY DIRECTIONAL COUPLER.

*Applicant* : TAVKOZLESI KUTATO INTEZET, OF 65, GABOR ARON UTCA, 1026 BUDAPEST, HUNGARY.

*Inventors* : SANDOR SZENASI, TAMAS TOTH AND MIHALY VARADI SZABO.

Application No. 2748/Cal/74 filed December 12, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims.

High-frequency directional coupler in which one of the two transmission lines being coupled to each other through coupling aperture is a rectangular waveguide, whereas the other a strip transmission line, characterized in that one side wall of the rectangular waveguide (1) composes a common conducting surface with the shielding metal wall of the internal strip conductor of the strip transmission line, in this common metal wall two coupling apertures (7, 8) are cut in a known manner so that the projection of the distance of the axes passing over the centres of gravity of the coupling apertures and being perpendicular to the surfaces of the coupling apertures makes out one quarter of the wave length of the waveguide on one frequency falling within the operational frequency range, along the longitudinal axis of the rectangular waveguide; further the internal strip conductor (6) of the strip transmission line, or a part thereof, is formed to a U-shaped returning in right angle in the plane of the strip conductor or along a circular arch and the strip conductor formed to a U-shaped is arranged in a plane parallel to the plane of the common metal wall so that the sections of parallel location as compared to each other, but not necessarily of equal length are perpendicular to the longitudinal axis of the rectangular waveguide; at the same time, the axis passing over the centre of gravity of one coupling aperture cut in the common metal wall and being perpendicular to the surface of the said coupling aperture intersects one parallel arranged strip conductor section and similarly, the axis passing over the centre of gravity of the other coupling aperture cut in the common metal wall and being perpendicular to the surface of the said coupling aperture intersects the other parallel arranged strip conductor section.

CLASS 2B., I.C.-G09f 13/12. 140269.

#### AN ADVERTISING APPARATUS.

*Applicant & Inventor* : SURESH RATILAL NANAVATI, OF SIR VITHALDAS CHAMBERS, 16 APOLLO STREET, FORT, BOMBAY, STATE OF MAHARASHTRA, INDIA.

Application No. 272/Bom/74 filed July 25, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims.

An advertising apparatus comprising a rectangular cabinet with open front and a translucent screen, the screen being inserted in the open front of the cabinet through a slit in the top of the cabinet, the slit being parallel to the longitudinal edge of the cabinet, the cabinet being internally partitioned by a plurality of full-depth compartments made by an arrangement of removable partitions, preferably vertical and/or horizontal, the top of the cabinet having a plurality (preferably two or three) of slits immediately behind and parallel to the first-mentioned slit, the sides of the cabinet having optionally a plurality (preferably two or three) of vertical slits immediately behind the screen, a predetermined part of the screen carrying the message of the advertisement, the inside of the back of the cabinet carrying an arrangement of sockets for

electric bulbs connected in series to an electric switch through a plug, the bulbs in predetermined compartments (not being the one covered by the portion of the screen containing the message of the advertisement) being flickering ones and the bulbs in the remaining compartment being steady ones, two or more slides with coloured motifs in transparency being inserted in the compartments carrying flickering bulbs through the aforementioned slits in the top of the cabinet just behind the screen, the flickering bulbs, when the current is switched on, projecting on the screen in the portion corresponding to the compartments with flickering bulbs an attractive colour-play in conjunction with the steady illuminated advertisement.

CLASS 157D, & 159J, I.C.-B61-I 13/04, 29/22, 29/28.

140270.

#### ELECTRICALLY OPERATED AUTOMATIC UNMANNED RAILWAY LEVEL CROSSING GATE AND WARNING DEVICES ACTUATED FROM A POWER SOURCE LOCATED IN THE TRAIN.

*Applicant & Inventor* : DR. KANOTH SUKUMARAN, PROF. OF ELECTRICAL ENGINEERING (RETD.), 2 'CHANTAN HOUSE', CANNANORE-2, KERALA.

Application No. 131/Mas/74 filed August 3, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 16 Claims.

An automatic railway level crossing gate opening and closing device actuated by power source in train, comprising a long metal gate lever bar heavily counter-weighted at its shorter end, a post at one side of the crossing supporting a pivot shaft of the lever bar in bearings, a second post at the opposite side of the crossing with which the tip of the longer side of the lever bar is registerable, means to hold the lever in the closed position of the gate, means to release the lever bar from the closed position of the gate, a motor for driving the gate level through a gear means, two insulated track conductors laid between the track rails, one of said conductors being laid from the crossing to a distance along the track in one direction parallel to and nearer to one of the track rails and the other conductor being laid from the crossing to a distance along the track in the opposite direction parallel to and nearer to the other rail of the track, said conductors being connected to the motor and signalling means provided on the gate and the said signal posts, a power source provided in the engine of a train, a pair of contactors each mounted on the said engine of a train, a pair of contactors each mounted on the said engine in corresponding relation to the said track conductors and being electrically connected to said source such that one of the contactors makes contact with and runs over the corresponding one of the said conductors to connect the power source with the motor and thereby operate the gate and said signal means, and a contact change over device provided on said engine to operate the said contactors so that one of them comes into contact and runs over the corresponding one of said traction conductors.

CLASS 187E<sub>2</sub> + E<sub>3</sub>, I.C.-H04R 1/28.

140271.

#### IMPROVEMENTS IN OR RELATING TO TRANSDUCERS.

*Applicant & Inventor* : PHIROZE ARDESHIR PESTON JAMAS, PRABHADEVI INDUSTRIAL ESTATE, CADELL ROAD, BOMBAY-25 DD, STATE OF MAHARASHTRA, INDIA.

Application No. 174/Bom/73 filed May 14, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 7 Claims.

An improvement in or relating to transducers of the electro-acoustic type for the elimination or attenuation of low frequency, high amplitude pressure waves, comprising a filter made up of sintered material or other conglomerated

material made from plastic, metal or ceramic particles of sizes ranging from 0.1 mm to 1.00 mm., placed at the acoustic passage of the transducer.

CLASS 6B. I.C.-B01d 45/00. 140272.

#### SEPARATING SOLIDS FROM GAS STREAM.

*Applicant*: BAYER AKTIENGESellschaft, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

*Inventors*: KLEMENS JASCHINSKI, AND WERNER FUHR.

Application No. 230/Cal/75 filed February 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A process for separating solids from a gas stream, wherein a gas/solids mixture is passed through a cyclone-line separation zone defined by an inner surface surrounding the gas/solids stream which consists at least partly of a porous material, wherein a flushing gas flows through the porous walls from the outside to the inside of the separation zone whereby a film of flushing gas is formed over the inner surface, and wherein the solids and the gas stream are independently withdrawn from the separation zone.

CLASS 27G. IC-E04C 3/02. 140273.

#### A MODULE FOR A STRUCTURAL ASSEMBLY.

*Applicant*: BHAGAT ENGINEERING CO. PVT. LTD., AT 11/56, LAIPAT NAGAR, NEW DELHI-110024, INDIA.

*Inventor*: ANIRUDHA SHIBPRASAD BHAGAT.

Application No. 2259/Cal/74 filed October 8, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims.

A module for use in a structural assembly and made of any suitable structural material such as ferrous metals and alloys, non ferrous alloys, fibreglass or plastics, said module being of a triangular shape with at least one unishear connector provided at each of the apexes, the structural neutral axis of any two adjoining sides of said triangle intersecting in the same plane and the centre of the connector coinciding with said intersection point.

CLASS 40H. I.C.-F25J 3/02, B01d 47/00. 140274.

#### A METHOD AND A DEVICE FOR WASHING OUT CARBON DIOXIDE, HYDROGEN SULPHIDE AND, WHERE NECESSARY, CARBON OXYsulphide.

*Applicant*: LINDE AKTIENGESellschaft, OF HILDEBRANDSTR. 2-10, WIESBADEN, WEST GERMANY.

*Inventor*: MR. FRITZ JAKOB.

Application No. 2757/Cal/73 filed December 18, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 15 Claims.

A method for separating carbon dioxide, hydrogen sulphide and, where needed, carbon oxysulphide present as contaminants from gases such as herein described with the aid of organic polar solvent under pressure and at low temperature, as defined hereinbefore whereby the charged solvent after washing is freed by unloading of a part of the components dissolved in it, characterised in that after unloading of the charged solvent the hydrogen sulphide is removed by the introduction of a stripping gas and washed out of the latter again by regenerated solvent, thereby freeing the gases from contaminants mentioned above.

CLASS 24A. I.C.-B61H 13/00.

140275.

#### EMERGENCY BRAKING APPARATUS FOR RAILWAY TRAINS.

*Applicant*: SOCIETE ANONYME DES MINES DE PER DE MAURITANIE, OF F'DERIK, ISLAMIC REPUBLIC OF MAURITANIA.

*Inventor*: ROLAND GUITTARD.

Application No. 2816/Cal/73 filed December 27, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

An apparatus for braking a railway train having at least one wagon, a body of the wagon including a floor, a pair of wheels, a common train pipe and the wagon having a brake controlled by the pressure in the train pipe, the improvement comprising at least one branch pipe connected to said train pipe and so located adjacent a wheel of said wagon as to be engaged and fractured by the wheel if the latter shifts abnormally in relation to the body of said wagon, thereby altering the pressure in said train pipe applying said brakes throughout the train, the one branch pipe being situated above a wheel so that upward movement of the wheel will cause the wheel to fracture it, the one branch pipe extending transversely across the wagon above the axle so as to be capable of being fractured by either one of the pair of wheels, and the one branch pipe being above the floor of the wagon, the floor having apertures through which a wheel can project to fracture the one branch pipe without damaging the floor.

CLASS 9D. I.C.-B22f 3/12, C22C 1/04, 39/00, 39/08, 39/36.

140276.

#### POWDER METALLURGY PRODUCTION OF HIGH PERFORMANCE ALLOYS.

*Applicant*: CABOT CORPORATION, AT 125, HIGH STREET, BOSTON, MASSACHUSETTS, UNITED STATES OF AMERICA.

*Inventors*: EDWARD MINTERFOLEY, DENNIS GEORGE DREYER AND HERBERT EDGAR ROGERS, JR.

Application No. 9/Cal/74 filed January 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims. No drawings.

The process of making from alloy powder a dense article of a high performance metal alloy as hereinbefore described comprising mixing alloy powder with a dry, finely divided organic binder in amounts not greater than about 5% by weight of the alloy powder so as to obtain a uniform dispersion of binder in the alloy powder, then adding a solvent for the binder in amount sufficient to form a plastic mixture with the alloy powder and binder, then consolidating the plastic mixture to a bulk density intermediate that of the powder and that of the cast alloy, then drying the consolidated mixture to evaporate the solvent, then crushing the consolidated mixture to discrete agglomerates of alloy powder particles, then filing a die of the desired shape with those agglomerates, then compacting the agglomerates in the die to at least 50% of the cast density of the alloy, so as to produce a coherent green compact, then removing the compact from the die, and then sintering the green compact at a temperature between the solidus and the liquidus temperature of the alloy.

CLASS 32F. + F.b. I.C.-C07d 49/32.

140277.

#### PROCESS FOR PREPARING NEW HYDANTOIN DERIVATIVES.

*Applicant*: PEPRO, SOCIETE POUR LE DEVELOPPEMENT ET LA VENTE DE SPECIALITES CHIMIQUES, OF 14/20, RUE PIERRE BAIZET 69009-LYON, FRANCE.

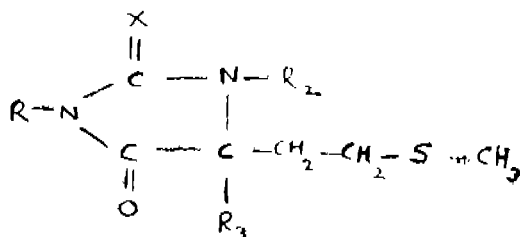
*Inventors*: CLAUDE CLAPOT, JEAN VIAL AND LOUIS DUMONT.

Application No. 1116/Cal/74 filed May 22, 1974.

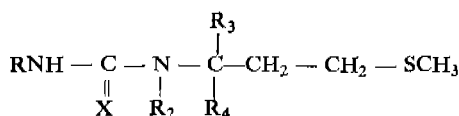
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A process for preparing compounds of the formula II.



in which R represents hydrogen, an alkyl radical, a halogenated alkyl radical, a cycloalkyl radical, an optionally substituted aryl radical, an optionally substituted aralkyl radical, an acyl radical, aroyl radical or an optionally substituted heterocycle;  $\text{R}_3$  represents hydrogen, an alkyl radical (optionally halogenated or substituted by a hydroxyl), a formyl radical, an acyl radical, a carbamoyl radical monosubstituted or disubstituted on the nitrogen,  $\text{R}_2$  represents hydrogen, an alkyl radical containing 1 to 5 carbon atoms; X represents oxygen or sulphur and their sulphonium salts which comprises cyclising in an acid medium a compound of the formula



in which R,  $\text{R}_2$ ,  $\text{R}_3$ , X have their meanings given above and  $\text{R}_4$  is a carboxylic acid radical, one of its ester, amide, nitrile derivatives or a salt (obtained by known methods) of an alkali metal, alkali-earth metal or heavier metal.

CLASS 68F., I.C.-B60Q 1/00. 140278.

**CONTROL ARRANGEMENT FOR VEHICLE HEADLAMPS.**

*Applicant*: THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND.

*Inventors*: JOHN WILLIAM SHARPE, THOMAS WILLIAM PICKFORD AND PETER SHRIMPTON.

Application No. 2201/Cal/74 filed October 1, 1974.

Convention date October 11, 1973/(47552/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A control arrangement for vehicle headlamps which are movable between a retracted, inoperative position and an extended, operative position, comprising a switch unit, at least one motor for moving the headlamps between their inoperative and operative positions, an electrical supply circuit for each of said motors, and switching means incorporated into each supply circuit to short-circuit the respective motor to achieve dynamic braking thereof after movement of said headlamps between said operative and inoperative positions, each said switching means including a relay unit whose coil is arranged to control supply of current to the respective motor, and a contact changeover assembly having a contact movable between first and second positions and arranged to change its position when the corresponding motor moves its respective headlamps between the operative and inoperative positions, the movable contact of the contact changeover assembly also being arranged to control the supply of current to a coil of said relay unit.

CLASS 32F., I.C.-C07C 17/02.

140279.

**PROCESS FOR THE PRODUCTION OF 1, 2-DICHLOROETHANE.**

*Applicant*: RHONE-PROGIL S.A., OF 25, QUAI PAUL-DOUMER, F-92408 COURBEVOIE, FRANCE.

*Inventors*: JEAN-RAYMOND COSTES, JEAN-CLAUDE STRINI AND SERGE HARDOUIN.

Application No. 2842/Cal/73 filed December 31, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A process for the production of 1, 2-dichloroethane, in which chlorine and ethylene are reacted at a temperature of from 20 to 80°C in the absence of light radiation, in liquid 1, 2-dichloroethane in the presence of a Lewis acid catalyst such as herein described wherein all the chlorine used and from 90 to 100 molar per cent of the total amount of chlorine of ethylene, are continuously introduced in to a first zone and the resulting products and the remaining ethylene are continuously introduced in counter-flow in a second zone to a flow of liquid 1, 2-dichloroethane, the two reaction zones being agitated and homogeneous and situated within a single reaction vessel, and the total amount of ethylene introduced not being in excess of 102 molar per cent of the total amount of chlorine.

CLASS 25A. I.C.-B44C 1/40, B28d 1/24. 140280.

**IMPROVEMENTS IN OR RELATING TO BRICKS.**

*Applicant & Inventor*: KALYAN KUMAR BANERJEE, OF 10/4, CENTRAL PARK, P.O. JADAVPUR, CALCUTTA-32, STATE OF WEST BENGAL, INDIA.

Application No. 600/Cal/75 filed March 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A method of manufacturing an improved bricks (as hereinafter defined) by upgrading the brick, so that the said brick is used in the exposed brick-work, such as, an outer-wall, in a construction, for better appearance and longevity, the said method mainly comprising the steps of—

(i) selecting the brick preferably from the best quality of bricks;

(ii) grinding a face and/or the four edges of the said face of the selected brick, to give it a smooth and uniform finish; and

(iii) treating the ground face of the smooth and uniform finished brick after the grinding operation, with a water-proofing chemical, to stop all efflorescence and water penetration at the said ground face and thus increase weather resistance and life of the brick surface.

CLASS 32F.b. I.C.-C07d 49/10. 140281.

**PROCESS FOR THE PREPARATION OF SUBSTITUTED 3-AMINO  $\Delta^2$ -PYRAZOLINE DERIVATIVES.**

*Applicant*: CHINOIN GYOGYSZER-ES VEGETETI TERMEKEK GYARA RT., OF 1-5 TO UTCA, BUDAPEST IV, HUNGARY.

*Inventors*: DEZSO KORBONITS, KALMAN HARSYANI, ERZSEBET MOLNAR, KALMAN TAKACS, GERGELY HEJA, JANOS BODNAR, ISTVAN BODROGI AND JUDITH ERODI.

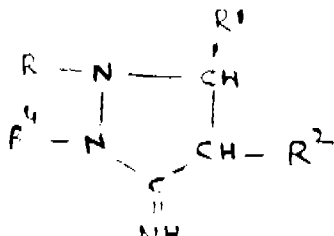
Application No. 1966/Cal/75 filed October 10, 1975.

Division of Application No. 128011 filed August 12, 1970.

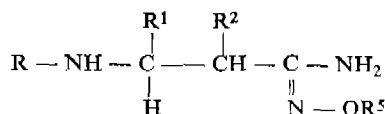
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

Process for the preparation of compounds of the formula



(wherein R stands for an optionally substituted alkyl group, an optionally substituted cycloalkyl group, an optionally substituted aralkyl group or an optionally substituted aryl group; R¹ and R² stand for hydrogen, an optionally substituted alkyl group or an optionally substituted aryl group; R³ stands for hydrogen or the acid radical of an organic carboxylic acid) and salts (hereof which comprises reacting a compound of the formula IV.



or a salt thereof (wherein R, R¹ and R² have the same meaning as stated above and R⁵ stands for hydrogen or the acyl radical of an organic carboxylic acid) with an ester of the formula V.



(wherein R⁶ stands for the acyl radical of an organic carboxylic acid and R⁷ stands for an alkyl group) and if desired subjecting a compound of the formula I thus obtained, wherein R¹ stands for hydrogen to N-acylation in a manner as hereinbefore defined if desired subjecting a compound of the formula I, wherein R⁴ stands for acyl to desacylation in a manner as hereinbefore defined to yield a compound of the formula I, wherein R¹ stands for hydrogen and if desired converting by known methods a product thus obtained into a salt thereof or setting free a compound of the formula I from its salt.

CLASS 152E. I.C.-C08H 11/00.

140282.

A PROCESS FOR PRODUCTION OF SEMISOLID HIGH VOLTAGE CABLE JOINTING COMPOSITION CONTAINING POLYMERIC CONSTITUENTS.

*Applicant*: THE REGISTRAR, JADAVPUR UNIVERSITY, CALCUTTA-700032, INDIA, DR. RAM NARAYAN MUKERJEA, ENGINEERING DEPARTMENT, JADAVPUR UNIVERSITY, CALCUTTA-700032, INDIA AND PRABIR KUMAR SARKAR, CHEMICAL ENGINEERING DEPARTMENT, JADAVPUR UNIVERSITY, CALCUTTA-700032, INDIA.

*Inventors*: DR. RAM NARAYAN MUKERJEA AND PRABIR KUMAR SARKAR.

Application No. 144/Cal/76 filed January 27, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims. No drawings.

A process for preparation of a highly efficient insulating composition which comprises:

(i) mixing a high polymer such as herein described with a base wax composition as herein described at 90–140°C under vigorous stirring to obtain a homogeneous mixture;

(ii) curing the silicone resins at 100 to 150°C in presence of alkali and mixing the cured resin with the base wax composition as herein described to obtain a homogenous mass; and

(iii) subjecting the mixture of obtained products of steps (i) and (ii) to hot filtration in molten condition through a glass wool bed to obtain the final composition.

CLASS 103. I.C.-C23f 11/00, 11/08.

140283.

METHOD FOR INHIBITING CORROSION AND ASH DEPOSITION IN FOSSIL FUEL BURNING EQUIPMENT.

*Applicant*: THE PEROLIN COMPANY, INC., OF 84 DANBURY ROAD, WILTON, CONNECTICUT, UNITED STATES OF AMERICA.

*Inventor*: JAMES FRANKLYN SCOTT.

Application No. 1755/Cal/73 filed July 28, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A method for inhibiting corrosion and ash deposition in the combustion of liquid ash-containing fossil fuels in fuel burning equipment which comprises mixing with such fuel prior to burning an additive composition comprising sources of silicon and magnesium in such quantities as to produce a combined SiO₂ and MgO, equivalent as hereinbefore defined in which the SiO₂:MgO weight ratio is greater than 2:1, the magnesium source being selected from magnesium acetate, magnesium chloride, magnesium sulphate, magnesium naphthenate, magnesium oleate or magnesium octoate and the silicon source being either a lower alkyl silicate or an organic silicon compound, the quantity of the magnesium and silicon sources being such as to provide at least 0.05 parts by weight of the combined SiO₂ and MgO equivalent to each part by weight of ash in the said fuel.

CLASS 31A. I.C.-H01g 3/09.

140284.

IMPROVEMENTS IN OR RELATING TO THE MANUFACTURE OF CERAMIC CAPACITORS.

*Applicant*: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-7, INDIA.

*Inventors*: DR. VISHWA NATH BINDAL, CALCUTTA VENKATESWARAIYER GANAPATHY, THOTTASSERI RAGHAVAN KUTTY MENON AND NARAYANA IYER NARAYANASWAMI.

Application No. 1775/Cal/73 filed July 31, 1973.

Post dated to November 5, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims. No drawings.

A process for the manufacture of high voltage ceramic capacitors by thoroughly mixing barium titanate with a calcium compound and subjecting the mixture to calcining, shaping and sintering characterised in that

- (i) calcium zirconate is thoroughly mixed with barium titanate prior to calcining in the range of calcium zirconate 25–35% and barium titanate 65–75%;
- (ii) calcining the mixed material in the temperature range of 1000°C to 1200°C;
- (iii) shaping the calcined material to get a green density of 3–3.75 gms/cc, and
- (iv) sintering the shaped body at a temperature range of 1280°C to 1380°C.

CLASS 9E + F. I.C.-C22C 11/00, 9/04, 13/00.

140285.

METHOD OF PREPARING A NEW ALLOY.

*Applicant & Inventor*: ARVINDER SINGH BRARA, OF 231, JODHPUR PARK, CALCUTTA-700 031, WEST BENGAL, INDIA.

Application No. 1474/Cal/74 filed July 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

A process of preparing a new alloy composition which is only slightly soluble in a liquid fuel like petrol and diesel oil and adapted to be deposited on surfaces of pistons, piston rings, cylinder walls and valves of liquid fuel operated internal combustion engine each time the fuel is combusted in combustion chamber of said engine, comprising melting in any order or sequence the component metals of a ternary composition consisting of 80—100 parts by weight of lead, tin and antimony said ternary composition containing major proportion, 58 per cent or above, by weight of lead and tin taken together and upto 22 per cent by weight of antimony, and the metals of a binary composition consisting of 0—20 parts by weight of zinc and copper until and homogeneous mix is obtained.

CLASS 70C<sub>2</sub>. I.C.-C22d 1/02, 1/06, 3/00. 140286.

PRODUCTION OF METAL BY ELECTROLYSIS OF A MOLTEN ELECTROLYTE.

*Applicant*: SWISS ALUMINIUM LTD., OF CHIPPIS (CANTON OF VALAIS), SWITZERLAND.

*Inventor*: HANSPETER ALDER.

Application No. 1734/Cal/74 filed August 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

28 Claims.

A process for the production of a metal by the electrolysis of a metal compound dissolved in a molten electrolyte, the process being performed in a multi-cell furnace with at least one inconsumable bi-polar electrode, and the anions have their charges removed on the surface of the anode of the bi-polar electrode, which is of an electron-conductive ceramic oxide material, and the metal ions have their charges removed on the surface of the cathode of the bi-polar electrode, which is of an electron-conductive material different from that used for the anode surface.

CLASS 39M & 123. I.C.-C01b 25/26. 140287.

PROCESS FOR THE PRODUCTION OF POTASSIUM PHOSPHATE OR POLYPHOSPHATE.

*Applicant*: FITZWILTON LIMITED, OF FITZWILTON HOUSE, WILTON PLACE, DUBLIN 2, REPUBLIC OF IRELAND.

*Inventors*: WILLIAM HENRY THOMPSON, RALPH ERIC WORTHINGTON, AND THOMAS NOEL SOMERS.

Application No. 1776/Cal/74 filed August 7, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A process for the production of potassium phosphate or polyphosphate in which potassium chloride and phosphoric acid or a polyphosphoric acid are reacted together characterised in that the molar ratio of phosphorous to potassium is maintained within the range of from 1 : 1 to 1.25 : 1 inclusive and that air is blown through the reaction mixture to facilitate the removal of hydrochloric acid.

CLASS 5D. I.C.-E02f 3/76. 140288.

AN IMPROVED FORM SHOVEL AND METHOD OF MAKING SAME.

*Applicant & Inventor*: RAM SINGH JAYASWAL, OF 11, CIRCUIT HOUSE, AREA NORTH, JAMSHEDPUR-831001, BIHAR, INDIA.

Application No. 2129/Cal/75 filed November 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A fork shovel comprising a horizontally disposed member with holes formed on its bottom face, a plurality of shaped high carbon steel fork limbs inserted into said horizontally disposed member at said holes and joined thereto for example by welding, said fork limbs being bent near said horizontal member.

CLASS 69D, 92E & 206E. I.C.-B02C 25/00, H03K 3/42. 140289.

AN ELECTRONIC CONTROL DEVICE FOR AUTOMATICALLY SWITCHING ON AND/OR OFF THE MOTOR OF A FLOUR MILL OR LIKE MILL.

*Applicant*: SWASTIK ENGINEERING WORKS, OF SUBHASH ROAD, ANAND, GUJARAT, INDIA.

*Inventor*: JAGDISHCHANDRA CHHOTABHAI PANCHAL.

Application No. 59/Bom/74 filed February 13, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims.

An electronic control device for automatically switching on and/or off the motor of a flour mill or like mill, said device comprising a photorelay unit consisting of an electronic control circuit provided with a photocell in the input end thereof and a relay unit having a coil provided in the output end of said electronic control circuit and normally closed contacts connectable in the electrical mains circuit of the motor so that the motor is switched off when said contacts open and switched on when said contacts close, said photocell being locatable opposite a light emitting source at the discharge end of the feed hopper of said flour mill or like mill such that light reaching the photocell from said light emitting source is intercepted when the hopper is loaded.

CLASS 85C & 116G. I.C.-B65g 25/04. 140290.

A RECIPROCATING CONVEYOR SYSTEM.

*Applicant & Inventor*: JYOTI PRASAD MUKHERJEE, OF "ASHUTOSH", 75-76, ERANDAWANA, POONA-4, MAHARASHTRA, INDIA.

Application No. 360/Bom/74 filed October 10, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims.

A reciprocating conveyor system for conveying or propelling solid materials in a predetermined direction, comprising a plurality of conveyor members each of which is supported on a movable support member with one end thereof partially overlapping and resting upon the following conveyor member; a mechanical lever arrangement connecting said support members to a pair of reciprocating levers so that adjacent conveyor members oscillate in relatively opposite directions in the axial plane in which the solid materials move; and drive means for driving said reciprocating levers.

CLASS 172A. I.C.-B65h 75/18. 140291.

IMPROVEMENTS IN BOBBIN SKEWER.

*Applicant & Inventor*: NAROTTAM VRAJLAL SHETH, OF 146-A, JAIN SOCIETY, SION, BOMBAY-400 022, MAHARASHTRA, INDIA.

Application No. 158/Bom/73 filed May 3, 1973.

Post dated to December 27, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.



## 12 Claims.

A bobbin skewer, comprising a tubular housing whereof one end region is tapered, bearing means at the opposite end region of said housing and having its axis extending transversely of the housing for pivotally mounting said skewer on another bearing means, elongate camming means extending along and in said tubular housing, slots in said one end region extending along said housing and formed through said housing between the inside of said housing and the outside thereof and distributed around the longitudinal axis of said housing, and holding dogs extending along said housing and through the respective slots for operating by said elongate camming means to move away from said longitudinal axis to hold a bobbin received on said skewer, the axially outer end regions of the respective dogs extending obliquely relative to said longitudinal axis, so as to extend radially inwards and axially outwards, for acting as guides for a bobbin as it is received by said skewer.

CLASS 195C. I.C.-F16K 3/16.

140292.

## IMPROVED GATE VALVE FOR HIGH VACUUM APPLICATIONS.

*Applicant* : BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY-85, MAHARASHTRA, INDIA.

*Inventors* : SHRI ANANT SHRIPAL CHAUGULE.

Application No. 197/Bom/73 filed June 5, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims.

An improved gate valve for use in vacuum lines and in conjunction with a diffusion pump and/or rotary pump comprising in combination, the outer body (1) provided with the rectangular slot and the flanged or standard union joined ports, and inside the said outer body (1) the driving-cum-link mechanism is incorporated comprising, the sliding nut (4) which is sliding with a restrained linear motion in the rectangular slot provided in the said outer body (1); the said sliding nut (4) is driven by the multi-start screwed driving shaft (5), along with the sealing plate (3) having the trapezium groove to accommodate a standard 'o' ring gasket (16), the said sealing plate (3) is connected to the said sliding nut (4) by means of two parallel links (11) and two tension springs (18); the said sliding nut (4) is provided with two cylindrical pins (13) for the tension springs (18), all four cylindrical pins being rigidly fixed to the said sliding nut (4) by means of welding; two parallel links (11) at one end, are mounted on the said two cylindrical pins (12) and the other end of two parallel links (11) hold the sealing plate (3) by means of the sealing plate pin (8); two tension springs (18) are mounted in the clear holes provided in the said cylindrical pins (13) and the clear holes provided in the cylindrical pins machine integral with the parallel links (11); and the position of the sealing plate (3) carrying a standard 'o' ring gasket (16), with respect to the port opening in the outer body (1), is adjustable by turning the multi-start screwed driving shaft (5) by the hand wheel (7), to close, to open or to partly open the said gate valve.

CLASS 69B. I.C.-H02h 3/20, 3/24.

140293.

## IMPROVEMENTS IN OR RELATING TO ELECTRICAL DEVICES FOR PROTECTION AGAINST VOLTAGES DROP AND/OR VOLTAGE RISE.

*Applicant & Inventor* : SUBHASH NARAYAN BAPAT, OF 1194/4, SHIVAJI NAGAR, POONA-5, STATE OF MAHARASHTRA, INDIA.

Application No. 427/Bom/73 filed December 26, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims.

A device for the protection of electrical or electronic instruments against voltage rise or voltage drop characterised in that, it comprises of : two transistors whose emitters are con-

nected through a common emitter resistance, ranging from 200 to 500 ohms depending on the gain of the transistors used, to an electrical circuit comprising a step down transformer, a full wave rectifier, a filter and variable resistance, fixed resistances and relays, a zener reference diode that stabilises the base of one of the transistors with reference to its collector; a potentiometric arrangement provided in the base of the other transistor which can be adjusted to the required high or low value; a common emitter resistance provided to both the transistors which selectively traces the path of the current through one transistor or the other according to the set value of the potentiometric arrangement provided in the base of the unstabilised bias transistor, a set of relays connected in the collectors of the two transistors such that for a value of voltage lower than the value fixed by the variable resistance the amplified current flowing in the collector arm of the stabilised bias transistor trips the relay connected and for a voltage higher than the value fixed by the variable resistance the amplified current flowing in the collector arm of the unstabilised bias transistor trips the relay there connected to switch off the supply in either case and protect the electrical or electronic equipment from voltage rise or voltage drop.

CLASS 48A &amp; 152C. I.C.-C08f 45/02, H01b

1/00.

140294.

## A METHOD OF PREPARING CROSS-LINKED THERMOPLASTIC POLYMERS.

*Applicant* : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY NEW YORK, UNITED STATES OF AMERICA.

*Inventors* : RAY CLARENCE LEVER AND EDWARD VINCENT WILKUS.

Application No. 1445/Cal/73 filed June 20, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 24 Claims.

A method of preparing cross-linked thermoplastic polymers in any conventional form like moulded or shaped articles, coatings on substrate and the like which comprises first preparing a compounded thermoplastic polymer material by compounding a thermoplastic polymeric material with a filler material, thereafter adding a curing agent and then preparing the thus obtained thermoplastic material into the desired form in a mould or on a substrate and heat curing same, characterized by the improvement that the compounded thermoplastic material is prepared by (a) mixing particles of thermoplastics polymeric material with particulate filler while melting surface portions of the particles of polymeric material, whereby the filler is blended with the melting surface portions of said polymeric particles and the resultant blend of the melted polymeric material and filler is removed from the remaining portion of the polymeric particles by the mixing action; and

(b) continuing both the mixing of the particles of thermoplastic polymeric material with the filler and the melting of surface portions of the said particles with the resulting blending of the melting surface portions and filler and the removal of the resultant blend of melted polymeric material and filler from said particles of polymeric material to effect a progressive melting and diminution of the said particles of polymeric material until said particles have become substantially melted and the filler has become substantially assimilated into the polymeric material whereby said polymeric material and filler are substantially compounded.

CLASS 98D + E &amp; 128G. I.C.-A61f 7/00, H05b

3/40, A61m 1/02.

140295.

## HEATING DEVICE.

*Applicant* : LM ELECTRONICS (HOLDINGS) LIMITED, (FORMERLY KNOWN AS LENTON-MCLEOD (HOLDINGS) LIMITED OF 20, WALLINGTON SQUARE, WALLINGTON, SURREY, ENGLAND AND DOUGLAS FRANCIS LENTON, OF 58, HOLMWOOD ROAD, CHEAM, SURREY, ENGLAND.

*Inventor* : DOUGLAS FRANCIS LENTON.

Application No. 2228/Cal/73 filed October 8, 1973.

Convention date October 5, 1972/(45988/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 11 Claims.

Apparatus for heating a fluid flowing through a flexible tube to a required temperature comprising a heat sink in the form of block of thermally conductive material formed with a channel the side of which is not closed so that the channel is capable of receiving a flexible-walled tube in intimate thermal contact with a substantial part of the side wall area of the channel without having access to either end of the tube, electrical heating means in thermal contact with the block, and an electrical supply control circuit connected to the heating means and operable in response to the block temperature to control the current in the heating means to tend to maintain the block at a temperature such that fluid flowing through the tube length retained in the channel attains the required temperature.

CLASS 32A. I.C.-C09b 29/00, 29/36. 140296.

### PROCESS FOR THE AFTER TREATMENT OF AN AZO PIGMENTS.

*Applicant* : HOECHST AKTIENGESELLSCHAFT, 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY

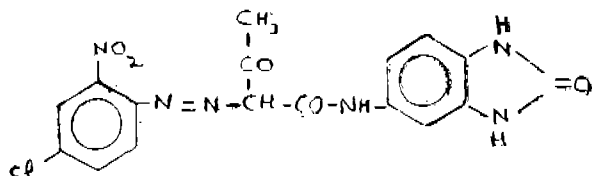
*Inventors* : KLAUS HUNGER, JOACHIM RIBKA, FRIEDRICH WEINGARTEN, WOLF GANGRIEPER.

Application No. 113/Cal/74 filed January 16, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims.

Process for the after treatment of the azo pigment of the formula I.



wherein the crude pigment which is obtained after coupling is heated to temperatures from 100 to 150°C in dry or wet condition in a solvent such as herein described which is water-immiscible or not indefinitely water-miscible and the pigment is isolated in known manner.

CLASS 48D<sub>2</sub> & 68B. I.C.-H02g 3/00. 140297.

### WIRING HARNESS.

*Applicant* : RIST'S WIRES & CABLES LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND, FORMERLY OF LOWER MILEHOUSE LANE, NEWCASTLE-UNDER-LYME, STAFFORDSHIRE, ENGLAND.

*Inventor* : JOHN LESLIE BRIDGETT.

Application No. 373/Cal/74 filed February 22, 1974.

Convention date February 23, 1973/(8885/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 8 Claims.

A wiring harness including a flexible, thermoplastic backing strip, a first lead comprising a conductive core in a thermoplastic sheath, the first lead extending longitudinally of the backing strip and the sheath of the lead being fused to the backing strip to secure the lead to the backing strip, a second lead comprising a conductive core in a thermoplastic sheath,

the second lead extending longitudinally of the backing strip and being turned back on itself so as to define first and second generally parallel runs, the sheath of the second lead being fused to the backing strip to secure the second lead to the backing strip and the backing strip being slit to define a flexible flap integral with the remainder of the strip and having secured thereto a portion of the first lead and one of said first and second runs of the second lead.

### OPPOSITION PROCEEDINGS

#### (1)

An opposition has been entered by The Tata Iron & Steel Co. Ltd. to the grant of a patent on application No. 138811 made by USS Engineers and Consultants, Inc.

#### (2)

An opposition has been entered by Orissa Cement Limited to the grant of a patent on application No. 139071 made by Gopeswar Saha.

### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

#### (1)

115301 115954 116009 116010 116019 116020 116023 116051  
116070 116104 116110 116169 116197 116265 116427 116623  
116659 116675 116827 117257 117399 117820 117862 118477  
118998 119053 119061 119662 119770 121346 121756 121880  
122930

#### (2)

114193 128350 129149 129239 129852 129998 130085 130224  
130225 130744 131142 131317 131891 132002 132077 133519  
133546 133718 134224 134624

#### (3)

126374 126383 126471 126727 126932 126955 127078 127275  
127627 127669 127707 127734 127752 127791 127854 127856  
127881 128030 128055 128134 128648 128910 130511 130802  
131393 131394 133419

#### (4)

79443 123441 129472 130279 130621 130722 131167 131869  
133046 133232

#### (5)

132210 132386 132387 132388 132389 132792 132997 133112  
133321 133693 133817 134189 134246 134253 134607 135159  
135505 135506 135507 135509 135510 135511

#### (6)

114997 118883 129482 129527

#### (7)

101965 110249 130083 130844 130946 131258 131583 131980  
132173 132214 132610 132796 133237 134356 134810 135126  
135284 135337 135381 135383 135384 135385 135387

### CORRECTION OF CLERICAL ERRORS UNDER SECTION-78

#### (1)

The title of the application and specification and certain errors in the statement of claims in the complete specification of the application for Patent No. 137104 have been corrected under sub-section (3) of Section 78 of the Patents Act, 1970.

(2)

The title in the application for Patent No. 137976 the acceptance of the complete specification of which was notified in pages 739 and 740 of the Gazette of India Part-III, Section-2 dated the 25th October 1975 has been corrected under sub-section (3) of Section 78 of the Patents Act, 1970 to read as "A method for preparing a wetproofed catalyst composition for use in conducting a chemical reaction between reactants contained in two or more fluid phases".

## PATENTS SEALED

82047 85089 87845 92481 92783 99565 102662 103305  
103933 105462 106163 110881 111082 112751 114556 118827  
119706 122524 123413 123522 124081 125803 125993 127755  
129575 130341 130897 130927 131432 134903 137104 137976  
137985 137986 137990 138001 138003 138009 138017 138021  
138107 138124 138125 138139 138150 138164 138165 138201  
138208 138217 138219 138225 138231 138233 138234 138244  
138245 138246 138248 138265 138266 138267 138276 138278  
138293 138332 138354 138619 138620 138669

## AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Notice is hereby given that Societe Sucriere De L'Atlantique (Engineering) Societe Anonyme, of 18, Avenue Matignon, Paris (8 eme), France, a French Company have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of their application for patent No. 129481 for "Method and apparatus for extracting juice by squeezing fibrous materials of sugarcane bagasse". The amendments are by way of correction so as to describe the invention correctly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filled with the notice of opposition, it shall be left within one month from the date of filing the said notice.

(2)

Notice is hereby given that E. I. Du Pont De Nemours & Company, a corporation organized and existing under the laws of the State of Delaware, United States of America, Located at Wilmington, Delaware, U.S.A. have made an application for Patent No. 139370 for "Improvements in and relating to compartmented package and process for forming such package".

The amendments are by way of explanation and correction to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30th within three months from the date of this notification at the Patent Office, Calcutta.

If the written statement of opposition is not filed with the notice of opposition, it shall be left within one month from the date of filling the said notice.

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patent is deemed to have been endorsed with the words "Licences of right" under Section 87 of the

Patents Act, 1970. The date shown in the crescent brackets is the date of the patent.

## No &amp; Title of the invention

128055 (17-8-70). Polyamide compositions, process for their preparation and articles prepared therewith.

## RENEWAL FEES PAID

78325 79023 79234 80759 80760 80761 80762 80763 84010  
84765 85068 85161 85194 85272 85651 89845 90437 90456  
90756 91014 91471 92442 93102 95508 95635 96495 96503  
96547 96548 96549 96550 96551 96559 96595 96596 96628  
96647 97996 99654 101914 101933 101970 102041 102109  
102204 102473 102526 102540 102730 102992 104395 106916  
107099 107617 107619 107638 108000 108083 108112 109046  
111020 111021 112287 112293 112475 112555 112621 112685  
112744 113002 113208 113262 113284 113296 113416 116479  
116495 116941 116942 117546 117596 117607 117608 117988  
118014 118023 118101 118115 118148 118180 119753 120492  
122090 122675 122693 123055 123128 123204 123356 123421  
123503 123602 123669 123868 123974 124107 124140 128193  
128320 128337 128340 128381 128449 128453 128496 128568  
128622 128945 128946 128947 129074 129329 129330 129400  
130128 130326 130653 130726 132833 132895 132948 132234  
133304 133328 133381 133382 133384 133670 133732 135061  
135463 135504 135604 135618 135631 135633 135670 135690  
135873 136443 136526 136677 136957 136960 137034 137146  
137321 137613 137872 137954 138242 138718 138739

## CESSATION OF PATENTS

123097 123119 123122 123129 123132 123156 123159 123172  
123173 123182 123185 123200 123212 123229 123235 123248  
123260 123263 123289 123292 123311 123323 123336 123374  
123394 123403 123430 123433 123470 123484 123505 123515  
123521 123532 123543 123556 123581 123620 123623 123663  
123685 123745 123747 123750 123789 123805 123819 123822  
123823 123857 123872 123874 123905 123921 123937 123951  
123957 123966 123977 124000 124025 124050 124073 124088  
124089 124094 124098 124128 124135 124136 124148 124157  
124158 124173 124191 124225 124248 124281 124282 124323  
124328 124346 125238 127510 130131 131066 133725

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 136159 granted to Kiran Chandra Choudhuri & others for an invention relating to Emulsions of Coal tar pitch/bitumen/cashew nut shell liquid epoxy resin. The patent ceased on the 8th October 1975 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 13th March, 1976.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 9th December, 1976 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which the bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

- Class 1. No. 144024. Union Carbide India Limited, an Indian Company, of 1, Middleton Street, Calcutta-700016, West Bengal, India. "Casing for flash-light". March 2, 1976.
- Class 1. No. 114029. Union Carbide India Limited, an Indian Company, of 1, Middleton Street, Calcutta-700 016, West Bengal, India. "Switch assembly for electric torch". March 2, 1976.
- Class 1. No. 144061. Hafiz Mohd. Shamim trading as Moham-madia Locksmithy, Lariya Abbas Nagar, Aligarh-202001, Uttar Pradesh, Indian National "Lock". March 9, 1976.
- Class 1. No. 144063. Mohammed Yasin Gali Madarsa Mir Jumla, Lal Kuan, Delhi-110006, an Indian National. "Frame of mirror". March 9, 1976.
- Class 1. No. 144079. Karikkada Chinnappan Yesudas, An Indian Citizen 81, Joy House, Behind Best Depot, C.S.T. Road, Kurla, Bombay-400070, Maharashtra, India. "A pressure stove". March 15, 1976.
- Class 1. No. 144082. Oriental Instruments of India, T-2, Baljit Nagar, New Delhi-110008, an Indian proprietary concern. "Vice". March 15, 1976.
- Class 1. Nos. 144091 & 144093. Suresh Shridhar Sathaye, An Indian Citizen, Building No. 1, Block No. 2, Sahakar Nagar, No. 1, Chembur, Bombay-400071, Maharashtra, India. "Electric Geyser". March 20, 1976.
- Class 1. No. 144127. Morris Electronics Limited, an Indian Company duly registered and incorporated under the Indian Companies' Act, 1956, at Bhosari Industrial Estate Poona-411026, Maharashtra, India. "Rectangular permanent magnet". March 30, 1976.
- Class 1. No. 144170. Elco Auto Industries, D-48, Man Sarover Park, Sahadara, Delhi-32, an Indian partnership concern. "Horn". April 17, 1976.
- Class 3. Nos. 144013 & 144014. Smt. Shakun Haresh Jhangiani an Indian National of 84, Sun Flower, Cuffe Parade, Colaba, Bombay-400005, Maharashtra, India. "Baby's carry-cot-cum-seat". March 1, 1976.
- Class 3. No. 144021. Bush India Limited, a Company registered under the Companies Act 1956 at Sukh Sagar, Sandhurst Bridge, Bombay-400 007, Maharashtra, India. "Portable radio receiving set". March 1, 1976.
- Class 3. No. 144030. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700 016, West Bengal, India. "Switch assembly for electric torch." March 2, 1976.
- Class 3. No. 144059. Dunlop Limited, a British Company, of Dunlop House, Ryder Street, St. James's London S.W. 1, England. "Tyre for a vehicle wheel". October 1, 1975. (U.K.).
- Class 3. No. 144088. Parsram Tikamdas Mansey, an Indian National, of H-18, Gita Society, 10, Synagogue Street, Poona-411001, Maharashtra State, India. "Cockroach trapper". March 17, 1976.
- Class 3. No. 144117. Fortune Electrical (India) Private Ltd., a Private Limited Firm, 173, Rashtreeya Vidyalaya Road, Visveswarapuram, Bangalore-560004, Karnataka State, South India, Subjects of the Indian Republic. "Electric plugs". March 24, 1976.
- Class 3. Nos. 144200 & 144201. Bata India Limited, a limited company incorporated under the Indian Companies Act, at 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "A sole for foot wear". April 30, 1976.
- Class 10. No. 144158. Bata India Limited, a limited Company incorporated under the Indian Companies Act, at 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "A footwear". April 9, 1976.
- Class 10. No. 144202. Bata India Limited, a limited Company incorporated under the Indian Companies Act, of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "Footwear". April 30, 1976.

#### COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 139063, 139142, 139280—Class 1.

Design Nos. 138546 & 139555—Class 3.

#### COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design Nos. 129064, 129065, 129066, 129067, 129068, 129069  
129070, 129071, 129186 & 134858—Class 1.

Design Nos. 129072, 129258 & 129630—Class 3.

Design No. 129667—Class 4.

S. VEDARAMAN,  
Controller-General of Patents,  
Designs and Trade Marks.